

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandra, Virginia 22313-1450 www.uspto.gov

APPLICATION NO	). 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/768,803		01/24/2001	Charlotte Johansen	5248.210-US	3908	
25908	7590	11/03/2003		EXAM	INER	
		RTH AMERICA	MARX, IRENE			
500 FIFTH SUITE 160		3	ART UNIT	PAPER NUMBER		
NEW YOR	NEW YORK, NY 10110				1651	

DATE MAILED: 11/03/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/768,803	JOHANSEN, CHARLOTTE					
Office Action Summary	Examin r	Art Unit					
	Irene Marx	1651					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC  - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commu  - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum statu - Failure to reply within the set or extended period for reply w - Any reply received by the Office later than three months afte earned patent term adjustment. See 37 CFR 1.704(b).  Status	CATION.  f 37 CFR 1.136(a). In no event, however, may a renication.  days, a reply within the statutory minimum of thirty utory period will apply and will expire SIX (6) MONT itll, by statute, cause the application to become ABA	ply be timely filed  (30) days will be considered timely.  FHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).					
1) Responsive to communication(s) file	d on <u>03 September 2003</u> .						
2a)⊠ This action is <b>FINAL</b> . 2	b)☐ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims							
4) Claim(s) 47-58 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>47-58</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a	a)☐ accepted or b)☐ objected to by th	e Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed	on is: a)  □ approved b) □ di	sapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim f	or foreign priority under 35 U.S.C. §	119(a)-(d) or (f).					
a) All b) Some * c) None of:							
1. Certified copies of the priority d	ocuments have been received.						
2. Certified copies of the priority d	ocuments have been received in Ap	pplication No					
<ul> <li>3. Copies of the certified copies of application from the Interna</li> <li>* See the attached detailed Office action</li> </ul>	tional Bureau (PCT Rule 17.2(a)).	-					
14) Acknowledgment is made of a claim for							
a) The translation of the foreign lang	•	• • • • • • • • • • • • • • • • • • • •					
15) Acknowledgment is made of a claim for	_ ,						
Attachment(s)							
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-3)</li> <li>Information Disclosure Statement(s) (PTO-1449) Pagentage</li> </ol>	O-948) 5) Notice of In	ummary (PTO-413) Paper No(s) Iformal Patent Application (PTO-152) .					

The amendment filed 9/3/03 is acknowledged. Claims 47-58 are being considered on the merits.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (c) prior art under 35 U.S.C. 103(a).

Claims 47-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allen taken with Winkler and Cantor *et al.* for the reasons as stated in the last Office action and the further reasons below.

## Response to Arguments

Applicant's arguments have been fully considered but they are not deemed to be persuasive.

In response to Applicant's argument that none of the cited references alone or in combination suggests the preferred halide sources and ammonium salts recited in the dependent claims. Also applicant alleges that the references fail to suggest that the combination of a haloperoxidase and a salt of NH<sub>4</sub><sup>+</sup> would result in an increased antibacterial activity. However, the touted surprising and unexpected results pertain to Example 4 and not to Table 1, at page 14 of the Specification, for example, wherein the effects of KI and INH<sub>4</sub> are not significantly different at 0.5 mM concentration. In Example 4 a specific haloperoxidase is used in conjunction with ethanolamine. Only in claim 56 is the halide source and the salt of ammonium the same.

Thus, the touted invention is dependent on the specific ammonium salt used, as well as its concentration and does not produce the touted unexpected results throughout the broad ranges as claim designated. Inasmuch as at least the Winkler reference discloses the use of ammonium salts in the context of a haloperoxidase (See, e.g., col. 5, in particular line 53), applicant's arguments fail to persuade. Therefore the rejection is deemed proper and it is adhered to.

Application/Control Number: 09/768,803 Page 3

Art Unit: 1651

No claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Irene Marx whose telephone number is (703) 308-2922. The examiner can normally be reached on Monday through Friday from 6:30 AM to 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn, can be reached on (703) 308-4743. The appropriate fax phone number for the organization where this application or proceeding is assigned is (703) 305-3592, (703) 308-4242 and (703) 305-3014.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Customer Service whose telephone number is (703) 308-0198 or the receptionist whose telephone number is (703) 308-1235.

Irene Marx
Primary Examiner
Art Unit 1651